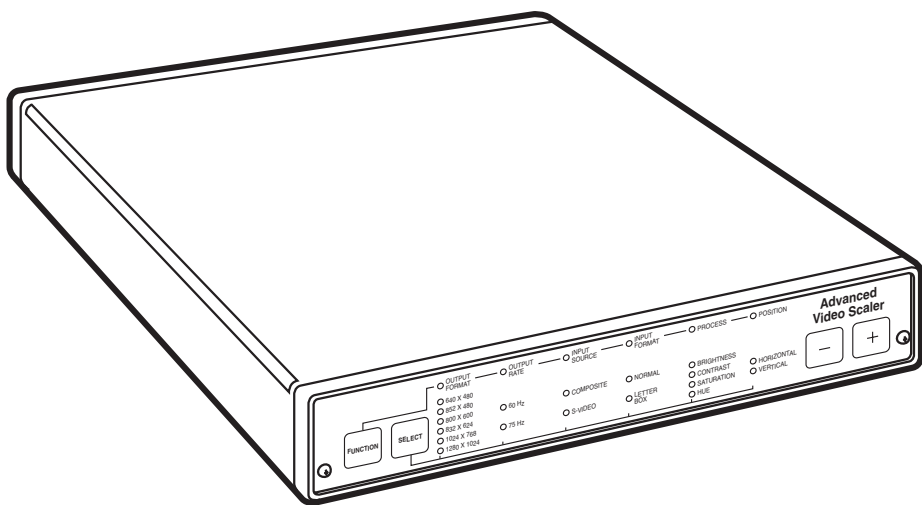




Advanced Video Scaler



**CUSTOMER
SUPPORT
INFORMATION**

Order toll-free in the U.S. 24 hours, 7 A.M. Monday to midnight Friday: **877-877-BBOX**
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**FEDERAL COMMUNICATIONS COMMISSION
AND
INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENTS**

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.



This unit is CE certified.

NORMAS OFICIALES MEXICANAS (NOM) ELECTRICAL SAFETY STATEMENT

INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc..
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.

10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser connectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra fisica y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las lineas de energia.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos liquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

TRADEMARKS

The trademarks mentioned in this manual are the sole property of their owners.

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1. Specifications

Controls — Contrast, brightness, color saturation, hue, horizontal and vertical positioning

Input Decoding — 16-bit YUV with comb filter processing

Input Formats — Normal (4:3), Letterbox (16:9)

Input Types — Composite and S-video (Y/C), both terminating into 75 Ohms

Input Video Standards — NTSC, NTSC-Japan, PAL (B, D, G, H, I, M, N, N-3.58), SECAM

Output Resolutions — 640 x 480, 800 x 600, 832 x 624, 852 x 480, 1024 x 768, 1280 x 1024 (60 Hz only)

Connectors — Input: (1) Composite: BNC female, S-video: (1) 4-pin mini-DIN female; Output: (1) HD15F with standard VGA pinout, (5) BNC connectors configurable as RGBHV, RGBS, or RGSB (RGB Sync on Green)

Power — 95-250 VAC, 47-Hz, autosensing external power supply

Size — 1.5"H x 7.3"W x 8"D (3.8 x 18.5 x 20.3 cm)

Weight — 3 lb. (1.4 kg), including power supply

2. Introduction

2.1 Description

The Advanced Video Scaler converts standard TV video from any composite or S-video source to one of six computer resolutions. These six resolutions were chosen to match the native resolution of almost any LCD, DLP, or plasma projector or display available today. In addition, the Video Scaler uses advanced motion compensation to eliminate the artifacts typically noticed when interlaced TV video is de-interlaced.

2.2 What the Package Includes

Your Advanced Video Scaler package should include the following items. If any of these items are missing or damaged, please contact Black Box at 724-746-5500.

- (1) Advanced Video Scaler unit
- (1) 12-ft. (3.6-m) S-Video Cable
- (1) 12-ft. (3.6-m) Composite BNC Video Cable male-to-male
- (1) BNC/RCA Adapter
- (1) Power Cord
- (1) Universal Power Supply
- This User Manual

3. Installation

Installing the Advanced Video Scaler consists of three easy steps: connecting the power, connecting inputs and outputs, and selecting the desired output parameters.

3.1 Connecting the Power

Connect the provided AC power cord to the power supply and connect the power cord to an AC outlet. The power supply is auto-sensing, so it will automatically adapt to your voltage anywhere in the world.

Connect the DC power plug from the power supply to the connector marked **POWER** on the rear panel of the Advanced Video Scaler.

3.2 Connecting Inputs and Outputs

Connect a video source to either the **Composite** or **S-Video** input on the rear panel.

Connect a computer monitor, projector, or display to either the BNC connectors or the VGA compatible connector on the rear panel. Both outputs may be connected at the same time to two different displays.

3.3 Selecting the Output Parameters

On the front panel of the Scaler, press the **Function** button to light the LED next to **Output Format**. Use the **Select** button to select the desired output resolution.

NOTE

The resolution selected should match the native resolution of the projector or display, not the highest resolution that the device will support. An extensive listing of the native resolutions of various projectors and displays starts on page 20.

Press the **Function** button to select **Output Rate** and use the **Select** button to set the desired output refresh rate.

Press the **Function** button to select **Input Source** and use the **Select** button to select either the **Composite** or **S-Video** video source.

Press the **Function** button to select **Input Format**. If your video source is in a standard 4:3 aspect ratio that fills the entire screen of a normal video monitor, then select **Normal**. If your video source has an active picture area that has a 16:9 aspect ratio (such as a letterbox movie on tape or DVD), and your output display is also a 16:9 widescreen display, then select **Letterbox**.

4. Operation

The Advanced Video Scaler has many features to facilitate proper operation with any projector or display. For a particular installation, you don't need to adjust any controls after the unit is installed. However, you can improve the picture quality by processing the video as detailed below.

4.1 Processing the Video on the Output Display

Push the **Function** button to select **Process** on the front panel. Use **Select** to select one of the four processing functions (Brightness, Contrast, Color Saturation, or Hue). The + and - buttons on the right side of the front panel allow you to increase or decrease the amount of processing for that function (for example, more or less color saturation).

When you have reached the limit for that function, the corresponding LED will flash. You may press the + and - buttons at the same time for two seconds to reset a selected processing function to its nominal or default value.

4.2 Positioning the Image on the Output Display

You may also move the image on the output display left, right, up, or down. To do so, press the **Function** button to select **Position**. Use **Select** to select either **Horizontal** or **Vertical** positioning. Press the + or - buttons to move the image.

4.3 Special Key Functions

You can activate several functions by pressing a combination of keys simultaneously:

- **Key Panel Lockout:** Press the **Function** and - buttons at the same time for two seconds to lock out the key panel. All the LEDs will flash momentarily to indicate that the key panel is locked.
- **Key Panel Unlock:** Press the **Function** and + buttons at the same time for two seconds to unlock the key panel and allow normal operation. All the LEDs will flash momentarily to indicate that the key panel is locked.
- **System Reset:** Press the **Select** button for three seconds to reset the unit and return all settings to their factory defaults.

5. Internal DIP Switch Settings

Inside the Advanced Video Scaler are several DIP switches for installation setup only that you do not need to access during normal operation. This section describes how to access these switches and what they are used for.

5.1 Accessing the DIP Switches

Slide off the top cover by doing the following:

1. Remove all power and I/O connections to the unit.
2. Remove the two screws on the front panel.
3. Carefully pull off the front bezel and keypanel (which is attached to the main circuit board by a ribbon cable), leaving the keypanel attached to the circuit board.
4. Slide the top cover towards the front of the unit, exposing the circuit board with the DIP switches on it.

5.2 S1 DIP Switch

The three-position DIP switch S1 is used to set the input video standard that the Advanced Video Scaler will look for on its inputs. All video standards are based on either 525 or 625 lines per frame. Most of the world is either NTSC-M or PAL-B and the default setting should be adequate for almost all applications. However, if the format of the video you are using is not either one of these, you can adjust the DIP switch S1 as follows:

S1-1	S1-2	S1-3	525 lines detected	625 lines detected
ON*	ON*	ON*	NTSC-M*	PAL-B*
OFF	ON	ON	NTSC-M	PAL-B
ON	OFF	ON	NTSC-J	PAL-B
OFF	OFF	ON	NTSC-M	PAL-B
ON	ON	OFF	PAL-M	PAL-B
OFF	ON	OFF	NTSC-M	PAL-N/4.43
ON	OFF	OFF	NTSC-M	SECAM
OFF	OFF	OFF	NTSC-M	PAL-N/3.58

*Default settings.

NOTE

DO NOT change the five-position DIP switch S3. If it's changed by mistake, reset it to the following factory default settings:

S3-1	ON
S3-2	OFF
S3-3	OFF
S3-4	OFF
S3-5	OFF

5.3 S2 DIP Switch

DIP switch S2 is used to set the type of sync on the outputs. Vertical sync is always present on the BNC connector labeled V. Separate horizontal and vertical syncs are always present on the **VGA Compatible** connector. The BNC connector labeled H/CS can output either horizontal sync or composite sync as follows:

S2-1	S2-2	Function of H/CS connector
ON	EITHER	Horizontal sync only
OFF	OFF	Composite sync with serrations
OFF	ON	Composite sync without serrations

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Regardless of what is on the H/CS connector, composite sync may be added to the Green video signal on both the Green BNC and the Green pin of the VGA Compatible connector if composite sync (with or without serrations) is selected above and S2-3 is set as follows:

S2-1	S2-2	S2-3	Sync added to Green?
EITHER	OFF	ON	Yes, composite with serrations
EITHER	ON	ON	Yes, composite without serrations
EITHER	EITHER	OFF	No sync added to Green

NOTE

The factory default for this DIP switch is shown in the table below.

S2-1	S2-2	S2-3
OFF	OFF	OFF

Composite sync with serrations on H/CS connector. No sync on green.

6. Output Timing Specifications

The timing specifications for the six output resolutions follow VESA specifications or Macintosh specifications where applicable. The 852 x 480 specification is based on the Fujitsu 42" plasma display specification.

Resolution	Refresh	H (KHz)	V (Hz)
640 x 480	60	31.48	59.96
640 x 480	75	37.51	75.03
852 x 480	60	31.73	59.98
852 x 480	75	38.07	71.97
800 x 600	60	37.89	60.33
800 x 600	75	46.89	75.02
832 x 624	60	39.29	60.07
832 x 624	75	49.19	75.10
1024 x 768	60	48.38	60.19
1024 x 768	75	60.04	75.05
1280 x 1024	60	64.00	60.04

NOTE

The Advanced Video Scaler does not support 1280 x 1024 at 75 Hz refresh.

7. Troubleshooting

If you are experiencing:

Nothing works or no video output

No video on outputs (just a blue screen)

There is video on the output display but it appears out of sync.

Then check this:

Are any of the LEDs lit? Is the power supply connected and plugged into the AC wall outlet?

Is the video source connected to the unit? Is it putting out a video signal as viewed on a video monitor?

Is the VCR or video source in the proper mode to output video as required?

Have you selected the proper input on the unit (Composite or S-Video) for the desired source?

Is the source of the video ON?

If you are using 5 BNC connections to the unit, try reversing the H and V sync connectors.

Make sure the display is capable of supporting the resolution you selected on the front of the unit. Try a lower resolution.

Appendix A: Rear Connector Pinouts

Power	Center Outer	+5 VDC in Ground
VGA Compatible Output (HD-15 Connector)	1	Red
	2	Green
	3	Blue
	4	N/C
	5	Ground
	6	Red Ground
	7	Green Ground
	8	Blue Ground
	9	N/C
	10	Ground
	11	N/C
	12	N/C
	13	H-Sync Out
	14	V-Sync Out
	15	N/C
S-Video Input	1	Ground
	2	Ground
	3	Luminance
	4	Chrominance

Appendix B: Native Resolutions of Popular Projectors, Panels, and Displays

Manufacturer	Model	Native Resolution	Device Type
3M	6750	1024x768	LCD Panel
3M	6100	640x480	LCD Panel
3M	6400	640x480	LCD Panel
3M	MP8030	640x480	LCD Projector
3M	6050	800x600	LCD Panel
3M	6650	800x600	LCD Panel
3M	MP8630	800x600	LCD Projector
3M	MP8650	800x600	LCD Projector
AmPro	5000 (Alice)	1280x1024	DLP Projector
AmPro	5000MX (Alice)	1280x1024	DLP Projector
AmPro	LCD-100	640x480	LCD Projector
AmPro	LCD-151	800x600	LCD Projector
Apollo	Explorer II	1024x768	LCD Projector
Apollo	IM-Q45A-D	1024x768	LCD Panel
Apollo	IM-2.1	640x480	LCD Panel
Apollo	Escort	800x600	LCD Projector
Apollo	Express	800x600	LCD Projector
Apollo	IM-2.1V	800x600	LCD Panel
Apollo	IM-Q20	800x600	LCD Panel
Apollo	IM-Q30	800x600	LCD Panel
Apollo	IM-Q35	800x600	LCD Panel
Apollo	Passport	800x600	LCD Projector
Apollo	Synergy	800x600	LCD Projector
ASK	960	1024x768	LCD Projector
ASK	970	1024x768	LCD Projector
ASK	960-AS	1024x768	LCD Projector

Manufacturer	Model	Native Resolution	Device Type
ASK	Impression 960	1024x768	LCD Projector
ASK	Impression 970	1024x768	LCD Projector
ASK	Impact WSX	1280x1024	LCD Projection Panel
ASK	970-AS	640x480	LCD Projector
ASK	Campus 300	640x480	LCD Panel
ASK	8300	800x600	DLP Projector
ASK	860-AC	800x600	LCD Projector
ASK	880-AS	800x600	LCD Projector
ASK	A4	800x600	LCD Projector
Aurora	S350	800x600	LCD Projector
Barco	BarcoGraphics 9200	1024x768	LCD Projector
Barco	BarcoGraphics 2100	1024x768	LCD Projector
Barco	BarcoGraphics 8200	1024x768	LCD Projector
Barco	BarcoReality 9200	1280x1024	LCD Projector
Barco	BarcoData 3200	720x480	LCD Projector
Barco	BarcoVision 3200	720x480	LCD Projector
Barco	BarcoData 8200	756x556	LCD Projector
Barco	BarcoData 9200	756x556	LCD Projector
Barco	BarcoVision 8200	756x556	LCD Projector
Barco	BarcoVision 9200	756x556	LCD Projector
Barco	Barcodata 2100	800x600	LCD Projector
Boxlight	1701	1024x768	LCD Projection Panel
Boxlight	2700	1024x768	LCD Projector
Boxlight	2001	640x480	LCD Projector
Boxlight	2002	800x600	LCD Projector
Boxlight	2020	800x600	LCD Projector
Boxlight	3000	800x600	LCD Projector
Boxlight	3600	800x600	LCD Projector
Boxlight	3700	800x600	LCD Projector
Boxlight	4801	800x600	LCD Projector
Chisholm	Databook 10/05	640x480	LCD Projection Panel

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Manufacturer	Model	Native Resolution	Device Type
Chisholm	Databook 10/10, 10/15, 10/20	640x480	LCD Projection Panel
Chisholm	Rainbow LCD 30/05, 30/15, 30/20	640x480	LCD Projection Panel
Chisholm	Aurora S500	800x600	LCD Projector
Chisholm	Aurora S500P	800x600	LCD Projector
Chisholm	Aurora S500W	800x600	LCD Projector
Chisholm	Databook 50/05	800x600	LCD Projection Panel
Chishom	Databook 50/10, 50/15, 50/20	800x600	LCD Projection Panel
Chisholm	Rainbow LCD 40/05, 40/15, 40/20	800x600	LCD Projection Panel
CTX	EXPro 500	640x480	LCD Projector
CTX	EZPRO 500-CT	640x480	LCD Projector
CTX	Liteware VP100	640x480	LCD Projector
CTX	EX Pro 550	800x600	LCD Projector
CTX	EZ860-CT	800x600	LCD Panel
CTX	EZPRO 550-CT	800x600	LCD Projector
Dukane	ImagePro 8000	640x480	LCD Projector
Dukane	ImagePro 8010	640x480	LCD Projector
Dukane	MagniView 456	640x480	LCD Projection Panel
Dukane	MagniView 487	640x480	LCD Projection Panel
Dukane	MagniView 488B	640x480	LCD Projection Panel
Eiki	LC-XGA970	1024x768	LCD Projector
Eiki	LC-4300(IS)	640x480	LCD Projector
Eiki	LC-5300	640x480	LCD Projector
Eiki	LC-6000	640x480	LCD Projector
Eiki	LC-6200	640x480	LCD Projector
Eiki	LC-6210	640x480	LCD Projector
Eiki	LC-7000	800x600	LCD Projector
Eiki	LC-7000UE	800x600	LCD Projector

Manufacturer	Model	Native Resolution	Device Type
Electrohome	ShowStar	640x480	LCD Projector
Electrohome	EPS800	800x600	LCD Projector
Electrohome	VistaPro Plus	848x600	LCD Projector
Enrich	TC-1000	800x600	LCD Projector
Epson	Power-Lite 7000	1024x768	LCD Projector
Epson	ELP-3300	640x480	LCD Projector
Epson	ELP-3500	640x480	LCD Projector
Epson	ELP-5000	800x600	LCD Projector
Epson	Power-Lite 5000	800x600	LCD Projector
Hitachi	CP-L550-HI	640x480	LCD Projector
Hitachi	CP-L750	800x600	LCD Projector
InFocus	LitePro 760	1024x768	LCD Projector
InFocus	580D	640x480	LCD Projector
InFocus	LitePro 210	640x480	LCD Projector
InFocus	LitePro 580	640x480	LCD Projector
InFocus	LitePro 220	800x600	LCD Projector
InFocus	LitePro 220V	800x600	LCD Projector
InFocus	LitePro 620ZV	800x600	LCD Projector
InFocus	LitePro 720	800x600	LCD Projector
InFocus	LitePro 620	800x600	LCD Projector
InFocus	PowerView 820	800x600	LCD Panel
Lightware	Viewpoint 100	640x480	LCD Projector
Lightware	MVP800	800x600	LCD Projector
Lightware	Viewpoint 800	800x600	LCD Projector
MegaPower	890 Projector	1024x768	LCD Projector
MegaPower	Ultrabeam 890	1024x768	LCD Projector
MegaPower	Megastar	640x480	LCD Projector
MegaPower	Megastar WS	640x480	LCD Projector
NEC	MT1000LCD	1024x768	LCD Projector
NEC	MT	640x480	LCD Projector
NEC	MT600 LCD	640x480	LCD Projector
NEC	MT800 LCD	800x600	LCD Projector

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Manufacturer	Model	Native Resolution	Device Type
NEC	MT810 LCD	800x600	LCD Projector
nView	.Z350	1024x768	LCD Panel
nView	DiaMonD D-400	640x480	LCD Projector
nView	L-500	640x480	LCD Projector
nView	nFinity	640x480	LCD Projector
nView	nSight	640x480	LCD Projector
nView	ViewFrame TFT	640x480	LCD Panel
nView	Z210	640x480	LCD Panel
nView	Z215	640x480	LCD Panel
nView	DiaMonD 445	800x600	LCD Projector
nView	DiaMonD D-450	800x600	LCD Projector
nView	DiaMonD D-460Z	800x600	LCD Projector
nView	Z250	800x600	LCD Panel
nView	L-550	832x624	LCD Projector
Panasonic	MLP1000	640x480	LCD Projector
Panasonic	PT-L291U	640x480	LCD Projector
Panasonic	PT-L390U	640x480	LCD Projector
Panasonic	PT-L592U	800x600	LCD Projector
Panasonic	PT-L292U	832x624	LCD Projector
Philips	LC5000	640x480	LCD Projector
Philips	ProScreen 1200	640x480	LCD Projector
Philips	ProScreen 3500	640x480	LCD Projector
Philips	ProScreen 4000	640x480	LCD Projector
Philips	ProScreen 4500	640x480	LCD Projector
Philips	ProScreen 5000	640x480	LCD Projector
Philips	ProScreen 4100	800x600	LCD Projector
Philips	ProScreen 4600	800x600	LCD Projector
Philips	LC3500	640x480	LCD Projector
Philips	LC4500	640x480	LCD Projector
Polaroid	HR2500	1024x768	LCD Panel
Polaroid	PV305	1024x768	LCD Projector
Polaroid	PV315	1024x768	LCD Projector

Manufacturer	Model	Native Resolution	Device Type
Polaroid	1700/1900/3000	640x480	LCD Panel
Polaroid	PV10	640x480	LCD Projector
Polaroid	PV110	640x480	LCD Projector
Polaroid	PV75	640x480	LCD Projector
Polaroid	PV211	800x600	LCD Projector
Polaroid	PV220	800x600	LCD Projector
proVision	2000	640x480	LCD Projector
proVision	2020	800x600	LCD Projector
Proxima	DP9100	1024x768	LCD Projector
Proxima	DP9200	1024x768	LCD Projector
Proxima	Ovation Plus 944	1024x768	LCD Panel
Proxima	Ovation 944	1024x768	LCD Panel
Proxima	DP4100Z	640x480	LCD Projector
Proxima	DP5500	640x480	LCD Projector
Proxima	Lightbook 10	640x480	LCD Projector
Proxima	Ovation 810	640x480	LCD Panel
Proxima	Ovation 820	640x480	LCD Panel
Proxima	DB5610	800x600	LCD Projector
Proxima	DP4200z	800x600	LCD Projector
Proxima	DP5600	800x600	LCD Projector
Proxima	Lightbook 20	800x600	LCD Projector
Sanyo	PLC-550M	640x480	LCD Projector
Sanyo	PLC-750M	640x480	LCD Projector
Sanyo	PLC-5500N	800x600	LCD Projector
Sanyo	PLC-5500NA	800x600	LCD Projector
Sarif	Shuttle LT800	800x600	LCD Projector
Sarif	Shuttle LT800N	800x600	LCD Projector
Sayett	MediaShow 1024	1024x768	LCD Projector
Sayett	DataShow 16.8M Color	640x480	LCD Panel
Sayett	DataShow AV	640x480	LCD Panel
Sayett	MediaShow 840	640x480	LCD Projector

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Manufacturer	Model	Native Resolution	Device Type
Sayett	MediaShow AV	640x480	LCD Projector
Sharp	CE-LT14M	1024x768	LCD Monitor
Sharp	QA-2500B	1024x768	LCD Projection Panel
Sharp	XG-E3000U	1024x768	Projector
Sharp	XV-P15UP	429x234	LCD Projector
Sharp	QA-1200	640x480	Presentation Panel
Sharp	QA-350B	640x480	Projection Panel
Sharp	QD-101MM	640x480	LCD Monitor
Sharp	XG-E1200U	640x480	Projector
Sharp	XG-E660U	640x480	Projector
Sharp	XV-H37VUAP	644x480	Projector
Sharp	QA-1800B	800x600	LCD Projection Panel
Sharp	XG-E690U	800x600	Projector
Sharp	XG-NV1UNoteVision	832x624	Projector
Sony	CPH-D500	640x480	LCD Projector
Telex	Firefly P200	640x480	LCD Projector
Telex	Firefly P250	640x480	LCD Projector
Telex	Firefly P350	640x480	LCD Projector
Telex	P170V	640x480	LCD Projector
Telex	P200	640x480	LCD Projector
Telex	PanelSlayer P170V	640x480	LCD Projector
Telex	P-400	800x600	LCD Projector
Telex	P400 Boardroom Projector	800x600	LCD Projector
Toshiba	TLP511	1024x768	LCD Projector
Toshiba	TLP311	640x480	LCD Projector
Toshiba	TLP410	800x600	LCD Projector
Toshiba	TLP411	800x600	LCD Projector
Unic	1200X	1024x768	LCD Projector
Unic	1200P-VGA	640x480	LCD Projector



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